BioMap and Living Waters

Guiding Land Conservation for Biodiversity in Massachusetts

Core Habitats of Southampton

This report and associated map provide information about important sites for biodiversity conservation in your area.

This information is intended for conservation planning, and is <u>not</u> intended for use in state regulations.

Produced by:

Natural Heritage & Endangered Species Program
Massachusetts Division of Fisheries and Wildlife
Executive Office of Environmental Affairs
Commonwealth of Massachusetts

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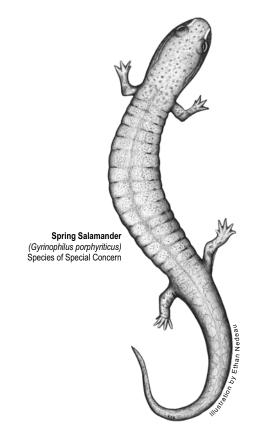
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* Depending on the location of Core Habitats, your city or town may not have all of these sections.



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Guiding Land Conservation for Biodiversity in Massachusetts

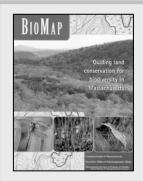
Introduction

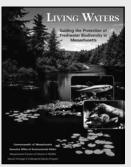
In this report, the Natural Heritage & Endangered Species Program provides you with site-specific biodiversity information for your area. Protecting our biodiversity today will help ensure the full variety of species and natural communities that comprise our native flora and fauna will persist for generatons to come.

The information in this report is the result of two statewide biodiversity conservation planning projects, BioMap and Living Waters. The goal of the BioMap project, completed in 2001, was to identify and delineate the most important areas for the long-term viability of terrestrial, wetland, and estuarine elements of biodiversity in Massachusetts. The goal of the Living Waters project, completed in 2003, was to identify and delineate the rivers, streams, lakes, and ponds that are important for freshwater biodiversity in the Commonwealth. These two conservation plans are based on documented observations of rare species, natural communities, and exemplary habitats.

What is a Core Habitat?

Both BioMap and Living Waters delineate Core *Habitats* that identify the most critical sites for biodiversity conservation across the state. Core Habitats represent habitat for the state's most viable rare plant and animal populations and include exemplary natural communities and aquatic habitats. Core Habitats represent a wide diversity of rare species and natural communities (see Table 1), and these areas are also thought to contain virtually all of the other described species in Massachusetts. Statewide, BioMap Core Habitats encompass 1,380,000 acres of uplands and wetlands, and Living Waters identifies 429 Core Habitats in rivers, streams, lakes, and ponds.





Get your copy of the BioMap and Living Waters reports! Contact Natural Heritage at 508-792-7270, Ext. 200 or email natural.heritage@state.ma.us. Posters and detailed technical reports are also available.

Core Habitats and Land Conservation

One of the most effective ways to protect biodiversity for future generations is to protect Core Habitats from adverse human impacts through land conservation. For Living Waters Core Habitats, protection efforts should focus on the *riparian areas*, the areas of land adjacent to water bodies. A naturally vegetated buffer that extends 330 feet (100 meters) from the water's edge helps to maintain cooler water temperature and to maintain the nutrients, energy, and natural flow of water needed by freshwater species.

In Support of Core Habitats

To further ensure the protection of Core Habitats and Massachusetts' biodiversity in the long-term, the BioMap and Living Waters projects identify two additional areas that help support Core Habitats.

In BioMap, areas shown as Supporting Natural *Landscape* provide buffers around the Core Habitats, connectivity between Core Habitats, sufficient space for ecosystems to function, and contiguous undeveloped habitat for common species. Supporting Natural Landscape was



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generated using a Geographic Information Systems (GIS) model, and its exact boundaries are less important than the general areas that it identifies. Supporting Natural Landscape represents potential land protection priorities once Core Habitat protection has been addressed.

In Living Waters, *Critical Supporting Watersheds* highlight the immediate portion of the watershed that sustains, or possibly degrades, each freshwater Core Habitat. These areas were also identified using a GIS model. Critical Supporting Watersheds represent developed and undeveloped lands, and can be quite large. Critical Supporting Watersheds can be helpful in land-use planning, and while they are not shown on these maps, they can be viewed in the Living Waters report or downloaded from www.mass.gov/mgis.

Understanding Core Habitat Species, Community, and Habitat Lists

What's in the List?

Included in this report is a list of the species, natural communities, and/or aquatic habitats for each Core Habitat in your city or town. The lists are organized by Core Habitat number.

For the larger Core Habitats that span more than one town, the species and community lists refer to the <u>entire</u> Core Habitat, not just the portion that falls within your city or town. For a list of <u>all</u> the state-listed rare species within your city or town's boundary, whether or not they are in Core Habitat, please see the town rare species lists available at <u>www.nhesp.org</u>.

The list of species and communities within a Core Habitat contains <u>only</u> the species and

Table 1. The number of rare species and types of natural communities explicitly included in the BioMap and Living Waters conservation plans, relative to the total number of native species statewide.

BioMap		
	Species and Verified Natural Community Types	
Biodiversity Group	Included in BioMap	Total Statewide
Vascular Plants	246	1,538
Birds	21	221 breeding species
Reptiles	11	25
Amphibians	6	21
Mammals	4	85
Moths and Butterflies	52	An estimated 2,500 to 3,000
Damselflies and Dragonflies	25	An estimated 165
Beetles	10	An estimated 2,500 to 4,000
Natural Communities	92	> 105 community types
Living Waters		
	Species	
Biodiversity Group	Included in Living Waters	Total Statewide
Aquatic		
Vascular Plants	23	114
Fishes	11	57
Mussels	7	12
Aquatic Invertebrates	23	An estimated > 2500

natural communities that were explicitly included in a given BioMap or Living Waters Core Habitat. Other rare species or examples of other natural communities may fall within the Core Habitat, but for various reasons are not included in the list. For instance, there are a few rare species that are omitted from the list or summary because of their particular sensitivity to the threat of collection. Likewise, the content of many very small Core Habitats are not described in this report or list, often because they contain a single location of a rare plant



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BioMap and Living Waters:

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species. Some Core Habitats were created for suites of common species, such as forest birds, which are particularly threatened by habitat fragmentation. In these cases, the individual common species are not listed.

What does 'Status' mean?

The Division of Fisheries and Wildlife determines a status category for each rare species listed under the Massachusetts Endangered Species Act, M.G.L. c.131A, and its implementing regulations, 321 CMR 10.00. Rare species are categorized as Endangered, Threatened, or of Special Concern according to the following:

- Endangered species are in danger of extinction throughout all or a significant portion of their range or are in danger of extirpation from Massachusetts.
- *Threatened* species are likely to become Endangered in Massachusetts in the foreseeable future throughout all or a significant portion of their range.
- **Special Concern** species have suffered a decline that could threaten the species if allowed to continue unchecked or occur in such small numbers or with such restricted distribution or specialized habitat requirements that they could easily become Threatened in Massachusetts.

In addition, the Natural Heritage & Endangered Species Program maintains an unofficial watch list of plants that are tracked due to potential conservation interest or concern, but are not regulated under the Massachusetts Endangered Species Act or other laws or regulations. Likewise, described natural communities are not regulated any laws or regulations, but they can help to identify ecologically important areas that are worthy of protection. The status of natural

Legal Protection of Biodiversity

BioMap and Living Waters present a powerful vision of what Massachusetts would look like with full protection of the land that supports most of our biodiversity. To create this vision, some populations of state-listed rare species were deemed more likely to survive over the long-term than others.

Regardless of their potential viability, all sites of state-listed species have full legal protection under the Massachusetts Endangered Species Act (M.G.L. c.131A) and its implementing regulations (321 CMR 10.00). Habitat of state-listed wildlife is also protected under the Wetlands Protection Act Regulations (310 CMR 10.37 and 10.59). The *Massachusetts Natural Heritage Atlas* shows Priority Habitats, which are used for regulation under the Massachusetts Endangered Species Act and Massachusetts Environmental Policy Act (M.G.L. c.30) and Estimated Habitats, which are used for regulation of rare wildlife habitat under the Wetlands Protection Act. For more information on rare species regulations, see the *Massachusetts Natural Heritage Atlas*, available from the Natural Heritage & Endangered Species Program in book and CD formats.

BioMap and Living Waters are conservation planning tools and do not, in any way, supplant the Estimated and Priority Habitat Maps which have regulatory significance. Unless and until the combined BioMap and Living Waters vision is fully realized, we must continue to protect all populations of our state-listed species and their habitats through environmental regulation.

communities reflects the documented number and acreages of each community type in the state:

- Critically Imperiled communities typically have 5 or fewer documented sites or have very few remaining acres in the state.
- *Imperiled* communities typically have 6-20 sites or few remaining acres in the state.
- *Vulnerable* communities typically have 21-100 sites or limited acreage across the state.
- **Secure** communities typically have over 100 sites or abundant acreage across the state; however excellent examples are identified as Core Habitat to ensure continued protection.



Massachusetts Division of Fisheries and Wildlife

Understanding Core Habitat Summaries

Following the BioMap and Living Waters Core Habitat species and community lists, there is a descriptive summary of each Core Habitat that occurs in your city or town. This summary highlights some of the outstanding characteristics of each Core Habitat, and will help you learn more about your city or town's biodiversity. You can find out more information about many of these species and natural communities by looking at specific *fact sheets* at www.nhesp.org.

Next Steps

BioMap and Living Waters were created in part to help cities and towns prioritize their land protection efforts. While there are many reasons to conserve land – drinking water protection, recreation, agriculture, aesthetics, and others – BioMap and Living Waters Core Habitats are especially helpful to municipalities seeking to protect the rare species, natural communities, and overall biodiversity within their boundaries. Please use this report and map along with the rare species and community fact sheets to appreciate and understand the biological treasures in your city or town.

Protecting Larger Core Habitats

Core Habitats vary considerably in size. For example, the average BioMap Core Habitat is 800 acres, but Core Habitats can range from less than 10 acres to greater than 100,000 acres. These larger areas reflect the amount of land needed by some animal species for breeding, feeding, nesting, overwintering, and long-term survival. Protecting areas of this size can be

very challenging, and requires developing partnerships with neighboring towns.

Prioritizing the protection of certain areas within larger Core Habitats can be accomplished through further consultation with Natural Heritage Program biologists, and through additional field research to identify the most important areas of the Core Habitat.

Additional Information

If you have any questions about this report, or if you need help protecting land for biodiversity in your community, the Natural Heritage & Endangered Species Program staff looks forward to working with you.

Contact the Natural Heritage & Endangered Species Program:

by Phone 508-792-7270, Ext. 200

by Fax: 508-792-7821

by Email: natural.heritage@state.ma.us.

by Mail: North Drive

Westborough, MA 01581

The GIS datalayers of BioMap and Living Waters Core Habitats are available for download from MassGIS: www.mass.gov/mgis

Check out www.nhesp.org for information on:

- Rare species in your town
- Rare species fact sheets
- BioMap and Living Waters projects
- Natural Heritage publications, including:
 - Field guides
 - * Natural Heritage Atlas, and more!



Massachusetts Division of Fisheries and Wildlife

Southampton

Core Habitat BM789

Natural Communities

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

High-Terrace Floodplain Forest Imperiled

Small-River Floodplain Forest Imperiled

Transitional Floodplain Forest Imperiled

Plants

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Green Dragon Arisaema dracontium Threatened

Many-Fruited False-Loosestrife Ludwigia polycarpa Endangered

Invertebrates

Common Name Scientific Name Status

Brook Snaketail Ophiogomphus aspersus Special Concern

Elderberry Long-Horned Beetle Desmocerus palliatus Special Concern

Zebra Clubtail Stylurus scudderi Endangered

Vertebrates

Common Name Scientific Name Status

Bald Eagle Haliaeetus leucocephalus Endangered

Bird Migration Habitat ------

Eastern Box Turtle Terrapene carolina Special Concern

Grassland Bird Habitat ------

Spotted Turtle Clemmys guttata Special Concern

Wood Turtle Clemmys insculpta Special Concern



Southampton

Core Habitat BM816

Natural Communities

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Circumneutral Rock Cliff Community Vulnerable

Circumneutral Rocky Summit/Rock Imperiled

Outcrop Community

Circumneutral Talus Forest/Woodland Vulnerable

Forest Seep Community Secure

Hemlock-Hardwood Swamp Secure

Hickory - Hop Hornbeam Imperiled

Forest/Woodland

Level Bog Vulnerable

Shrub Swamp Secure

Plants

Common Name Scientific Name Status

Autumn Coralroot Corallorhiza odontorhiza Special Concern

Black Maple Acer nigrum Special Concern

Cornel-Leaved Aster Doellingeria infirma Endangered

Glaucescent Sedge Carex glaucodea Endangered

Green Rock-Cress Arabis missouriensis Threatened

Hairy Agrimony Agrimonia pubescens Threatened

Hoary Tick-Trefoil Desmodium canescens Watch Listed

Houghton's Flatsedge Cyperus houghtonii Endangered

Large-Bracted Tick-Trefoil Desmodium cuspidatum Threatened

Linear-Leaved Milkweed Asclepias verticillata Threatened

Narrow-Leaved Vervain Verbena simplex Endangered

New England Blazing Star Liatris scariosa var. novae-angliae Special Concern

Nodding Chickweed Cerastium nutans Endangered

Philadelphia Panic-Grass Panicum philadelphicum Special Concern



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Purple Clematis Clematis occidentalis Special Concern

Red Mulberry Morus rubra Endangered

Roundleaf Shadbush Amelanchier sanguinea Special Concern

Sensitive Rare Plant

Shining Wedgegrass Sphenopholis nitida Threatened

Spiked False Oats Trisetum triflorum ssp molle Endangered

Swamp Lousewort Pedicularis lanceolata Endangered

Toothcup Rotala ramosior Endangered

Violet Wood-Sorrel Oxalis violacea Endangered

Wapato Sagittaria cuneata Threatened

Invertebrates

Common Name Scientific Name Status

New Jersey Tea Inchworm Apodrepanulatrix liberaria Endangered

Orange Sallow Moth Rhodoecia aurantiago Threatened

Pine Barrens Itame Sp. 1 near inextricata Special Concern

Pine Barrens Zanclognatha Zanclognatha martha Threatened

Vertebrates

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Bald Eagle Haliaeetus leucocephalus Endangered

Eastern Box Turtle Terrapene carolina Special Concern

Four-toed Salamander Hemidactylium scutatum Special Concern

Grasshopper Sparrow Ammodramus savannarum Threatened

Jefferson Salamander Ambystoma jeffersonianum Special Concern

Marbled Salamander Ambystoma opacum Threatened

Sensitive Rare Vertebrate

Spring Salamander Gyrinophilus porphyriticus Special Concern

Upland Sandpiper Bartramia longicauda Endangered

Wood Turtle Clemmys insculpta Special Concern



Southampton

Core Habitat BM916

Plants

Common Name Scientific Name Status

Small Site for Rare Plant

Core Habitat BM922

Plants

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Small Site for Rare Plant

Core Habitat BM957

Plants

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Small Site for Rare Plant



BioMap: Core Habitat Summaries

Southampton

Core Habitat BM789

This Core Habitat encompasses riparian areas along the Manhan River and several of its tributaries. It includes fields, wet meadows, shallow marshes, shrub and forested wetlands, and a large oxbow along the west side of the Connecticut River. This diverse area contains habitats for three species of state-protected rare turtles, as well as Bald Eagles. It supports rare insects like the Endangered Zebra Clubtail dragonfly, and rare plants such as the Endangered Many-Fruited False-Loosestrife. The Core Habitat encompasses several floodplain forest communities, including an unusually high-quality Small-River Floodplain Forest. Parts of this Core Habitat are already protected as conservation land, including MassAudubon's Arcadia Wildlife Sanctuary, and further protection of key areas is needed.

Natural Communities

This Core Habitat contains a diversity of Floodplain Forest communities of varied quality. The Small-River Floodplain Forest within this Core Habitat is one of only three high-quality known locations of this community type in the state. Small-River Floodplain Forests are Silver Maple-Green Ash forests occurring on alluvial soils of small rivers and streams. This rare type of forest is often heavily impacted by hydrology alterations and is usually associated with a suite of invasive exotic species; however, this occurrence has remained in excellent condition and is disturbance free. The Transitional Floodplain and High-Terrace Floodplain Forests here are also important occurrences of these uncommon community types, especially because of their proximity to each other.

Plants

Two populations of the very rare Many-Fruited False-Loosestrife grow on exposed mud and depressions within floodplains along the Connecticut River. The Threatened Green Dragon, a relative of Jack-in-the-Pulpit, is also growing in floodplain habitat along the Connecticut.

Invertebrates

The Manhan River and its tributaries within this Core Habitat provide important habitat for rare dragonflies including the Endangered Zebra Clubtail and the Brook Snaketail. In addition, wet meadows and shrub swamps with Elderberry located at various points along this stretch of the Manhan River provide habitat for the Elderberry Longhorned Beetle. Portions of the Manhan River flow through extensive areas of developed and agricultural land, which threatens the river and its rare species inhabitants with hydrologic alteration and pollution.

BioMap: Core Habitat Summaries

Southampton

Vertebrates

The extensive, connected areas of habitat that border the Manhan River and its tributaries provide significant habitat for Wood Turtles. Documented observations indicate that Spotted Turtles and Eastern Box Turtles are present here as well. A number of nearby roads, including Rte. 10, have likely adversely affected populations of these turtles through road mortality. This Core Habitat should be a priority for conservation planning for Wood Turtles.

The section of the Connecticut River and its forested shorelines within this Core Habitat provide relatively undisturbed foraging and perching habitat for wintering and non-breeding Bald Eagles. Protection and management of wet meadows and shallow marshes near the west side of the Connecticut River can benefit a variety of birds, including rails, bitterns, and certain species of waterfowl and shorebirds. Managed grasslands at Arcadia Sanctuary provide habitat for grassland birds. The diverse habitats within this Core Habitat provide important migration habitat for a number of bird species.

Core Habitat BM816

This long Core Habitat encompasses critical habitat for a diversity of rare plants and animals. It includes the ridgeline and adjacent slopes of East Mountain and Mount Tom, as well as the cultural grasslands at Barnes Municipal Airport. Together these diverse habitats support a number of outstanding rare plant populations, in addition to several rare species of moths, amphibians, reptiles, and grassland birds. Also of note are the many high-quality natural communities, such as the largest-known Circumneutral Talus Forest in the state. Although much of the area within this Core Habitat is already protected as conservation land, other large and important sections remain unprotected.

Natural Communities

This long Core Habitat contains multiple species-rich, high-quality natural communities of rocky East Mountain and Mount Tom. It includes the largest-known Circumneutral Talus Forest in the state. Circumneutral Talus Forest communities develop on boulder strewn slopes below certain cliffs, with scattered trees, shrubs, vines, and ferns. There is often a gradient of vegetation density as the slope changes, with more trees on the lower slope. The high-quality talus forest here has variations in slope, rock size, exposure, and light, and consequently supports a great diversity of plant associations. Also contained within this Core Habitat is a large Hickory-Hop Hornbeam Forest/Woodland of excellent quality that is associated with many state-listed rare species. Hickory-Hop Hornbeam Forests are open, mixed hardwood forests dominated by various Hickory species and with significant Hop Hornbeam in the subcanopy. This community type is characterized by a sparse shrub layer, and a rich diversity of herbaceous flora. Also of note within this Core Habitat are: several high-quality Circumneutral Rocky Summit/Rock Outcrop communities associated with hilltops, a very high-quality Level Bog found just west of the ridge in Westfield, and other wetlands that occupy depressions in and between the mountains.

Plants

A tremendous concentration of rare plant species is growing within this very important Core Habitat. Some of the noteworthy rare plant populations within this area include a fine stand of Black Maple, the state's largest occurrence of Cornel-Leaved Aster, several high-quality occurrences of Green Rock-Cress, and two outstanding populations of Purple Clematis.



Massachusetts Division of Fisheries and Wildlife

BioMap: Core Habitat Summaries

Southampton

Invertebrates

This Core Habitat includes two main areas, both of which are important habitat for rare moths and butterflies. The first area is the late-successional pine barrens and early-successional pine-oak woodland in Westfield, located immediately to the east of the Barnes Airport runway. The second area, which is larger and less fragmented, consists of the dry, open woodlands along the ridgetops of East Mountain and the Mount Tom Range. Rare species of moths inhabiting these areas include the New Jersey Tea Inchworm, which requires the New Jersey Tea plant growing in these habitats, and the Orange Sallow moth, whose larvae feed on False Foxgloves growing along the ridgetops. This Core Habitat is in close enough proximity to similar Core Habitat in South Hadley and Hadley to allow for occasional dispersal of Orange Sallow moths and other rare insects between these two areas.

Vertebrates

This Core Habitat encompasses an elongate area that includes the entire ridgeline and adjacent slopes of East Mountain and Mount Tom in Holyoke and Easthampton. This area provides habitat for several species of state-protected rare amphibians and reptiles, including Marbled, Jefferson, Four-toed, and Spring Salamanders, as well as Eastern Box Turtles. It is characterized by rocky forested hillsides, talus slopes, seasonal pools, forested wetlands with sphagnum pools, and small brooks. It also provides breeding habitat for a variety of forest birds and important migration habitat along the north-south migration corridor of the Connecticut River Valley.

Grasslands at Barnes Municipal Airport within this Core Habitat support small breeding populations of Grasshopper Sparrows and Upland Sandpipers. Airfield management that minimizes mowing between May 1 and July 31 each year will minimize direct mortality of eggs and young of these species, while maintaining taller grass that discourages use by larger birds that pose hazards to aircraft, for example crows, geese, and gulls.

Living Waters: Species and Habitats

Southampton

Core Habitat LW004

Exemplary Habitats

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Invertebrate Habitat ------

Core Habitat LW206

Invertebrates

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Creeper Strophitus undulatus Special Concern

Triangle Floater Alasmidonta undulata Special Concern

Core Habitat LW427

Exemplary Habitats

Common Name Scientific Name Status

Invertebrate Habitat ------

Invertebrates

Common Name Scientific Name Status

Creeper Strophitus undulatus Special Concern

Dwarf Wedgemussel Alasmidonta heterodon Endangered

Eastern Lampmussel Lampsilis radiata -------

Eastern Pearlshell Margaritifera margaritifera -------

Eastern Pondmussel Liqumia nasuta Special Concern

Triangle Floater Alasmidonta undulata Special Concern



Living Waters: Core Habitat Summaries

Southampton

Core Habitat LW004

Breakneck Brook flows from wetlands in the northern part of Southampton and eventually joins Tucker Brook. The stream supports a healthy community of the more ecologically sensitive aquatic insects: mayflies, stoneflies, and caddisflies. The presence of this invertebrate community indicates the stream habitats here are relatively free of the impacts of development. The streambed is made up of a mix of boulders, cobbles, pebbles, gravels, and sands that provide excellent habitats for these aquatic invertebrates. Forested stream banks help maintain the high-quality habitat by shading the water to keep it cool, by providing a natural energy source to the stream ecosystem in the form of leaves and sticks, and by controlling the runoff of sediments, excess nutrients, and water.

Core Habitat LW206

The sandy riverbed of the meandering Manhan River provides important habitat for seven of the state's twelve freshwater mussel species, including the rare Triangle Floater and the rare Creeper mussel. Two reaches of the Manhan River in Southampton are especially productive for mussels, supporting robust and successfully reproducing populations of both the Triangle Floater and the Creeper.

Core Habitat LW427

This Core Habitat encompasses the Manhan River, the Mill River Diversion, and Oxbow Pond, all of which provide important habitat for fishes and rare invertebrates.

The sandy substrate and clay banks found in the short stretch of the Mill River known as the "Mill River Diversion" support one of the most diverse communities of freshwater mussels in the state. Eight of the twelve species that occur in Massachusetts are found here, four of which are state-listed as rare: the federally-Endangered Dwarf Wedgemussel, the Triangle Floater, the Eastern Pondmussel, and the Creeper mussel. Due to the limited habitat availability in the Mill River Diversion all of these mussel populations are particularly subject to extirpation from a catastrophic event, such as an oil spill or water diversion, and thus warrant special conservation attention.

The sandy riverbed of the meandering Manhan River provides important habitat for seven of the state's twelve freshwater mussel species, including the rare Triangle Floater, Creeper, and Eastern Pondmussel. Two reaches of the Manhan River in Southampton are especially productive for mussels, supporting robust and successfully reproducing populations of the Triangle Floater and the Creeper mussel. The Eastern Pondmussel is found in the mouth of the Manhan River below the lowest dam in the finer sands and silts.

This Core Habitat also provides habitat for rare dragonflies. These aquatic insects are good indicators of ecosystem health, confirming that this Core Habitat contains high-quality freshwater habitats for other aquatic species as well. For example, Oxbow Pond is a particularly productive site for fishes, supporting a diversity of warmwater species.



Help Save Endangered Wildlife!

Please contribute on your Massachusetts income tax form or directly to the



To learn more about the Natural Heritage & Endangered Species Program and the Commonwealth's rare species, visit our web site at: www.nhesp.org.